Work Orde May-27-13 12:42		281		*102	2281*			A.M. 1 MAX MAX		= -	Page 1
Revision ID:	D4079-1			Accept	*N900	040	100)* s	Setup Start	1.71	S1*
Start Date: 5 Required Date: 6	Clamp Half, At 5/29/13 5/03/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item I Customer:	ID:			Згор	^N	S2*
		n: MLJ	_			ate:		F	Run Start	!/	R1* R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr		sion Nbr									
Mandsaw Jeaspa Bandsaw	В	Memo Cut blank 2.7	750" long	0.00				12			¥ 13-6-2
*110 *11 0 *				0.00							
HAAS I HAAS CNC vertical :	machine #1	Memo Mill as per D Folio rev: Dwg Rev:	wg and Folio FA931	0.00		ί3 ·	6-11	12		gar panggan ta gapang	04 04 9-8
		Deburr									

NCR:	Yes	/	No
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DQA: ____ Date: ____

NCR: Y	es / No				WORK ORDER NON-	CONFOR	IVIAINCE / UP	DAIE	QA Closed:	Date	:	
Work Orde	.				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS		
Part N					Rework Scrap		Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality	
NCR N	0				Use-as-is Work Order Update	- Ther	moforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	Other	
Root				Descr	iption of work order update	Initial		tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chief En	g Desc	ription	Date	Verification	QC Inspector	
oc/Data quip/Tooling Operator												
/laterial												
etup												
Other	4	ļ										
rocess	_	1					·					
upplier												
raining	_											
inapproved						FAULT CAT	L FGORY		L		1	
Landin	a Goor				General	FAULI CAT	EGORT					
Canuli	Bending				Bend	Grain			Ovalized	Γ	Pressure/Forced	
<u> </u>	⊣	lot Conce	ntric to (_{2/5} -	BOM/Route	Hardw			Over/Under	tolerance	Temperature/Cure	
	Cracks			-/-	Broken/Damaged	 	tion incomplete		Part Incorre	 	Weld	
ļ		/Crimped			Burrs	\vdash	ctions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled	
-	Cuffs	•			Contamination	Main	tenance	·	Part Moved		-	
Ī	Heat Tre	at			Countersink	Mislat	eled		Positioned V	Vrong		
ľ	Inspection	on Strip in	Tube		Cut Too Short	Misre	ad		Power Loss/	Surge	Other	
Ţ	Ripples in Bend Drill Holes						Offset					
	Torque Waves in Extrusion Drawing						Calibration	•				
Ţ	Turning Sequence Finish					Out of Sequence						
Ī	Wave/Twist in Tube Folio						le Dimensions	·				

May-27-13 12:42:49 PM

way 27 13 12.													
Item ID: Revision ID:	D4079-1			Accept	*N	1900	040	100)* s	etup Star	171.	S1*	
Item Name:	Clamp Half, A	ttachment							•	Stop	' *N:	S2*	
Start Date: Required Date	5/29/13 : 6/03/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*			Cust Item I Customer:	D: .	,					
Reference:	•												
Approvals:	Process Pla	n:	Date:	Tooling:		Da	ate:		R	un Star	171	R1*	
	QC:		Date:	SPC (Y/N):		Da	ate:			Stop	` *N	R2*	
Sequence ID/ Work Center I	D	Operation Description	·	Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	-
120		QC2- Inspect parts off ma	achine FAI/FAIB	0.00	1								
120 QC Quality Control		Memo		0.00	I		73 ·C	, .	12	. 4) (O4 04 9-8	
130		QC8- Inspect parts - seco	ond check	0.00	1	1						2×0	
130 QC Quality Control		Memo		0.00	12.2	13/4	06/11		12	_ \$		08 80 98	
Camari, Camari													
140		Chemical Conversion Co	oat per QSI005 4.1	0.00					/2		h/ 12	2 / 19	
140 HandFinish Hand Finishing		Memo		0.00					-/X	φ	14/0	6-12.	

											DQA	Da	te:	
NCR:	Yes	/ No				WORK ORDER NON-C	CO	NFORM	MANCE / UP	DATE				-
											QA Closed	: Da	te:	
Work Orde	or.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Work Ordi	٠					Rework	7		Skid-tube	Crosstube	7	Water Jet	Г	Engineering
Part f	No.					Scrap	1		Machining	Small Fab	Pro	od. Eng. Coor.	\vdash	Quality
	•			·····		Use-as-is	1		noforming	Finishing	-1	re/Packaging		Other
NCR I	No. ِ					Work Order Update]		Large Fab	Composite]	Supplier		
Root					Descri	otion of work order update	Г	Initial	Ac	tion	Sign &			
Cause		Date	Step	Qty	C	or Non-conformance	Cr	nief Eng	Desc	ription	Date	Verificatio	n ·	QC Inspector
Doc/Data										-				
Equip/Tooling														
Operator	Ш		1											
Material	Ш						l		1					
Setup	Ш													
Other	Ш		1											
Process	Ш						1							
Supplier	Ш						1							
Training				1 1			1							
Unapproved											<u> </u>			
						F	AUI	LT CATE	GORY					
Landi	_	ì			_	General		-			٦			1
	-	Bending				Bend	L	Grain		<u> </u>	Ovalized		<u> </u>	Pressure/Forced
	Centre Not Concentric to O/S)/S	BOM/Route		Hardwa		·	Over/Under		L	Temperature/Cure
		Cracks			<u> </u>	Broken/Damaged	<u>_</u>	⊣ `	on Incomplete	<u> </u>	Part Incorre		L	Weld
	\vdash	Crushed/	Crimped			Burrs		-	ions Incomplete/	Unclear	Part Lost/M	_	L_	Wrong Stock Pulled
		Cuffs				Contamination	Maintenance Part Moved							
	igspace	Heat Trea				Countersink		Mislabe		<u></u>	Positioned \	=		1
		Inspectio		Tube		Cut Too Short	Misread			Power Loss,	/Surge		Other	
1	Ripples in Bend Drill Holes Offset													

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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Work Orde <i>May-27-13 12:4</i>		2281		*10:	2281*			Page 3
Revision ID:	D4079-1 Clamp Half, A	Attachment	- <u>-</u>	Accept	*N9000401	NN* Set	up Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	5/29/13 6/03/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item ID: Customer:			
Approvals:	Process Pla	in:	Date:	Tooling: SPC (Y/N):	Date:Date:	Ru:	n Start Stop	*NR1* *NR2*
Sequence ID/ Work Center II 150 *150* Powdercoat Powder Coating	234	Operation Description Black Sandtex(Ref: 4.3.5.) Memo	7) per QSI005 4.3	Set Up/ Run Hours	Tool ID Tool # Place Co (Time: 3-3) Lime: 4-0)	-		Reject Insp. Number Stamp 13/06/12
*160 *160* QC Quality Control		QC3- Inspect Part Finish Memo		0.00		(2	-	Il 13/06/12
170 *170* Packaging Packaging		Identify as per dwg & Sto	ock Location:	0.00		/ <i>ð</i> ×		

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												DQA:	D	ate:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFOR	MANCE / UP	DATE					
				- <u></u>	 						_'	QA Closed:	D	ate:	
Work Ord	eř.					DISPOSITION				AGAINST DI	EP	PARTMENT	/PROCESS		
Part	•					Rework Scrap]		Skid-tube Machining	Crosstube Small Fab	7	Dro	Water Je d. Eng. Coo		Engineering Quality
Part	NO.					Use-as-is	┨		noforming	Finishing	┨		e/Packagin		Other
NCR	No.					Work Order Update	_		Large Fab Composite Supplie					-⊢	
Root					Descri	ption of work order update	T	Initial	Ac	ction	T	Sign &			
Cause		Date	Step	Qty		or Non-conformance	Cr	nief Eng	Desc	cription		Date	Verificati	on	QC Inspector
Doc/Data		1									T		•		
Equip/Tooling			1								1		·		
Operator											1				
Material	L														
Setup									İ		l				s
Other											l				
Process				<u> </u>							١				
Supplier											1				
Training											l				
Unapproved			<u> </u>								╧				<u> </u>
					,		AUI	LT CATE	GORY		_				
Land	ing (Gear			_	General		_			_			_	-
	L	Bending				Bend	L	Grain			┥.	Ovalized		\perp	Pressure/Forced
1	Centre Not Concentric to O/S BOM					BOM/Route		Hardwa			⊣.	Over/Under		L	Temperature/Cure
	Cracks Broken/Damaged					Broken/Damaged		Inspecti	ion Incomplete		الـ	Part Incorred	ct	\perp	Weld
	Crushed/Crimped Burrs					Burrs	L	Instruct	tions Incomplete	/Unclear	_	Part Lost/Mi	ssing	L	Wrong Stock Pulled
		Cuffs				Contamination	L	Mainte	enance	`	_	Part Moved			
	\Box	Heat Trea	at .		, [Countersink		Mislabe	eled		_	Positioned V	/rong	_	-
		Inspectio	n Strip in	Tube		Cut Too Short		Misread	.		ı	Power Loss/	Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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Work Ord <i>May-27-13 12:</i>		2281						Page 4				
Item ID: Revision ID: Item Name:	D4079-1 Clamp Half, A	Attachment		Accept	*N900	040	100) *	Setup	Start Stop	14.	S1* S2*
Start Date: Required Date Reference:	5/29/13 : 6/03/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item I Customer:	(D :	_					
Approvals:	Process Pl	an:	Date:	Tooling: SPC (Y/N):		ate: ate:			Run	Stop	*N *N	R1* R2*
Sequence ID/ Work Center I	(D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
*1 2 1 8 1 8 1 8 1 8 1		QC21- Final Inspection -	Work Order Release	0.00						3/	2/19	19

Quality Control

NCR:	· · · · · · · · · · · · · · · · · · ·												
											QA Closed:	Date:	
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part N	-					Rework Scrap Use-as-is Work Order Update		i	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update		Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data							1						
Equip/Tooling							1						
Operator	Ш												
Material													
Setup							1						
Other													
Process	Ц		Ì										
Supplier													
Training													
Unapproved			<u> </u>										
		<u> </u>				F.	AUL	T CATE	GORY		·		
Landi	ng G	iear				General				_	7		1
	\vdash	Bending.				Bend	_	Grain			Ovalized	<u> </u>	Pressure/Forced
Centre Not Concentric to O/S BC						BOM/Route	_	Hardwa		<u> </u>	Over/Under	— —	Temperature/Cure
	Cracks					Broken/Damaged	_	Inspecti	on Incomplete		Part Incorred		Weld
		Crushed/	Crimped		_	Burrs		-{	ions Incomplete/l	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
Cuffs Contamination						Contamination		Mainte			Part Moved		
Heat Treat Countersink						Countersink		Mislabe	eled	_	Positioned W	· ·	1
		Inspectio	n Strip in	Tube	<u> </u>	Cut Too Short	L	Misread	1		Power Loss/	Surge	Other
		Ripples in	Bend			Drill Holes	L	Offset					
Torque Waves in Extrusion Drawing						Drawing		Out of 0	Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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Page 1

Work Order ID:

102281

Parent Item:

D4079-1

Parent Item Name:

Clamp Half, Attachment

Start Date: 5/29/13

Required Date: 6/03/13

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP REV: A NEW ISSUE 10*-05-10 JLM VERIFIED BY:DD

	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B2.000X02.000		Purchased	No			100	f	28.1500	0.23	2.9052636	()	12-6-8	7

 Location
 Loc Oty
 Loc Code

 MAT009
 28.15

 124443
 28.15

									DQA:	Date:	
NCR: Yes	/ No				WORK ORDER NON-C	CONFORM	MANCE / UP		QA Closed:	Date:	
Work Order:					DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part No					Rework Scrap Use-as-is Work Order Update	Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng		cription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training									-		

Landing	Gear	General	 _	 _		-
	Bending	Bend	Grain	Ovalized		Pressure/Forced
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance		Temperature/Cure
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect		Weld
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing		Wrong Stock Pulled
	Cuffs	Contamination	Maintenance	Part Moved		
	Heat Treat	Countersink	Mislabeled	Positioned Wrong	_	_
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge		Other
Γ	Ripples in Bend	Drill Holes	Offset			
	Torque Waves in Extrusion	Drawing	Out of Calibration			· · · · · · · · · · · · · · · · · · ·
	Turning Sequence	Finish	Out of Sequence			

Outside Dimensions

FAULT CATEGORY

Wave/Twist in Tube

Folio

Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order:	102281
Description: Clamp Half, Attachment	Part Number:	D4079-1
Inspection Dwg: D4079 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
2.502	+/-0.010	2.503			ven	JL-10
Ø0.203	+0.005/-0.001	205			2	DE-10
0.75	+/-0.030	748			_	
0.375	+/-0.010	374			_	
0.310	+/-0.010	-311			-	
1.882	+/-0.010	1.882				
0.78	+/-0.030	-781			-	
R0.13	+/-0.030	_ 12	/		1	
1.440	+/-0.010	1-440	/,		-	
R0.38	+0.010/-0.000	-385			#6	
R0.050	+/-0.010	-050			~	
R0.73	+/-0.030	-730	/		1.5	
Ø0.257	+0.006/-0.001	-258			^	
R0.25	+/-0.030	-250			~	
0.390	+/-0.010	-389			-	
0.850	+/-0.010	- 849				
0.025 x 45°	+/-0.010 x 0.5°	-025×45°				
0.100	+/-0.010	2101	_		~	
R0.05	+/-0.030	-050			_	
1.240	+/-0.010	1-240			_	
1.65	+/-0.030	1.654			HG	
0.60	+/-0.030	-600			~	
0.23	+/-0.030	228			,	
0.025	+/-0.010	-025			_	

	, D/W				<u> </u>	
Measured by:	04	Audited by:	D.A	DAG	Preliminary Approval:	
Date:	13-6-10	Date:	13/06/11	8-89	Date:	

Rev	Date	Change	Revised	by	Approved
Α	10.10.07	New Issue	KJ	H	2/
				171	

